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	Application No.	Applicant(s)
Notice of Allowability	10/683,768	HAN, JONGHEE
	Examiner	Art Únit
	David Lam	2827
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate comm RIGHTS. This application is:	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-32</u> .		
3. \boxtimes The drawings filed on <u>10 October 2003</u> are accepted by	the Examiner.	
4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be substituted in the substitute of	ve been received. ve been received in Application documents have been received. E" of this communication to file MENT of this application. emitted. Note the attached EX ives reason(s) why the oath of the submitted. erson's Patent Drawing Reviewer's Amendment / Comment of the header according to 37 Classic of BIOLOGICAL MAT	on No d in this national stage application from the e a reply complying with the requirements AMINER'S AMENDMENT or NOTICE OF r declaration is deficient. W (PTO-948) attached r in the Office action of the drawings in the front (not the back) of ER 1.121(d). ERIAL must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 4. ☑ Examiner's Comment Regarding Requirement for Deposition of Biological Material	6. Interview S Paper No. 8/08), 7. Examiner's	oformal Patent Application (PTO-152) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance
		DAVID LAM PRIMARY EXAMINER

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Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: Claims 1-32 are allowable over the prior art of record because none of the prior art whether taken singularly or in combination, especially when these limitations are considered within the specific combination claimed, to teach: a circuit/control system for a DRAM device comprising: at least one buffer modules, among others as claimed in independent claims 9, 17, 21, each comprises a differential amplifiers having first input respond to a signal and second input responsive to a reference voltage, a common source stage, and an output stage, wherein the impedance of the common source stage is control by a source of a bias voltage, and the reference define the amplitude of the bias voltage; a circuit for an input buffer of a signal comprising a common source stage, among others as claimed in independent claim 25, connected between a common node and a ground reference of a differential amplifiers, wherein the impedance of the common source stage is control by a source of a bias voltage. Method of digitizing a signal comprising step of applying the reference voltage to define the amplitude of the bias voltage, and among other steps as claimed in independent claim 1; defining the amplitude of the bias voltage in response to receiving the reference voltage on the second input of the differential amplifier, and among other steps as claimed in independent claim 29.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

- Sim (6,4424,577) discloses a sense amplifier circuit for use is a semiconductor memory

device.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David Lam whose telephone number is 571-272-1782. The

examiner can normally be reached on 6:00 – 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoai Ho can be reached on 571-272-1777. The fax phone numbers for the

organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Lam

March 1, 2005

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